

FIG. 1

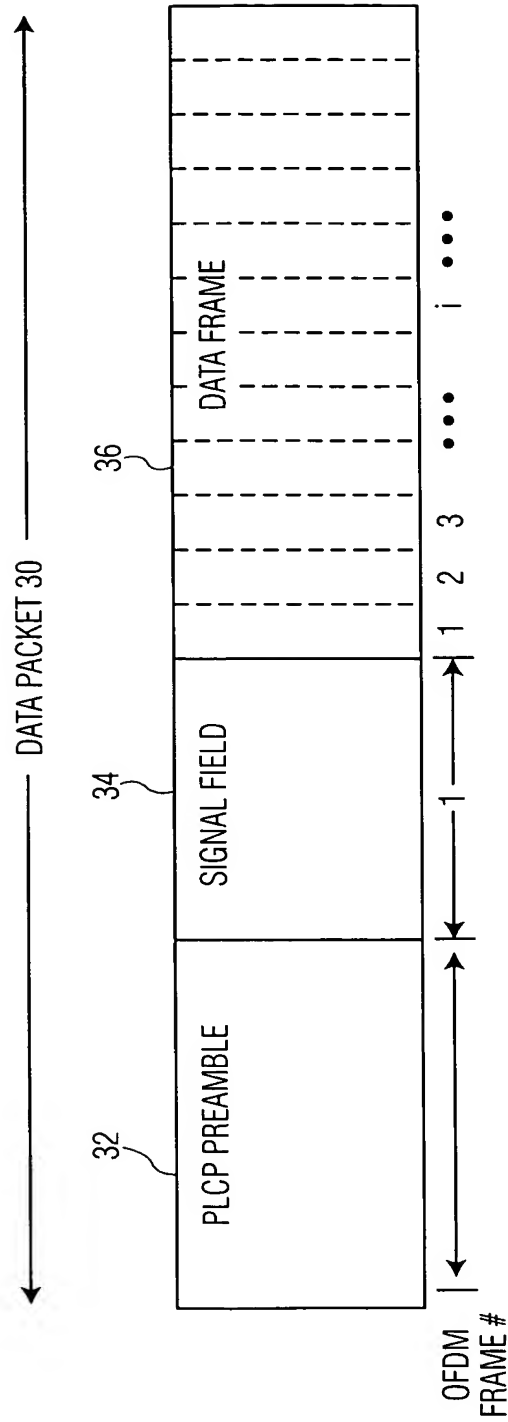


FIG. 2a  
PRIOR ART

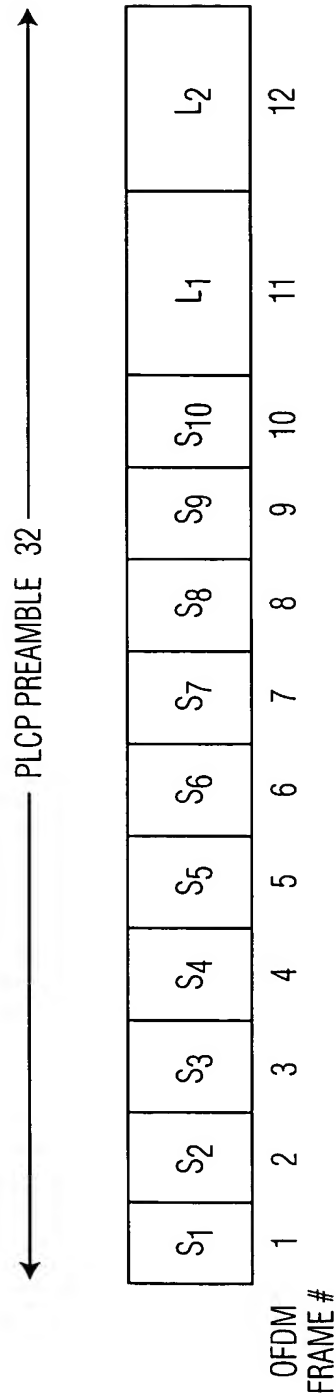


FIG. 2b  
PRIOR ART

4/11

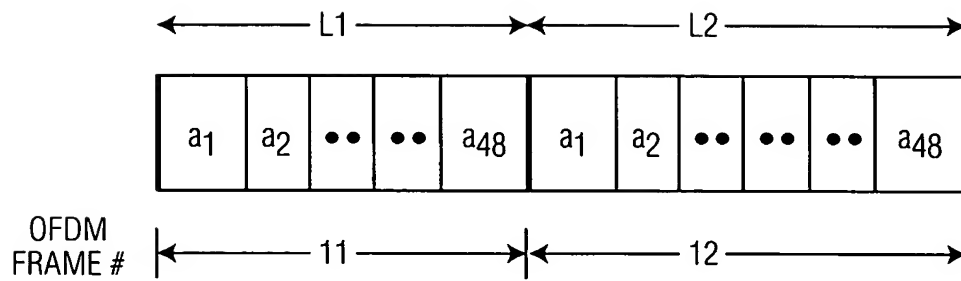


FIG. 2c  
PRIOR ART

40

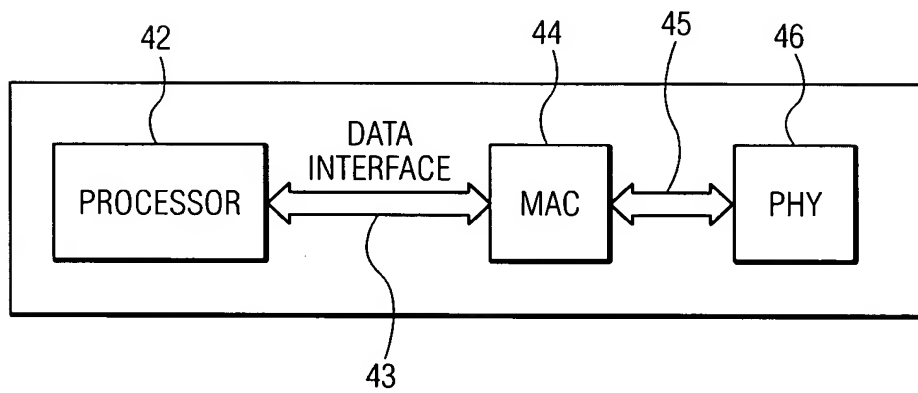
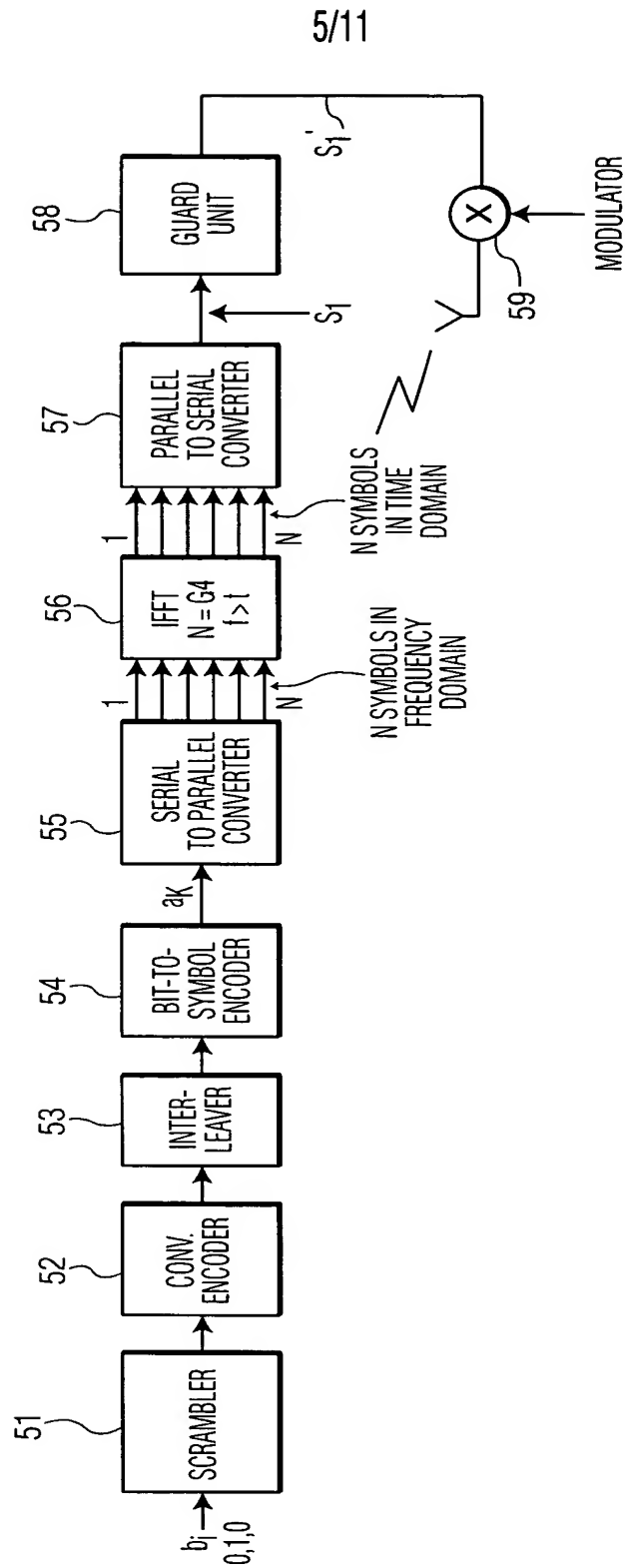


FIG. 3  
PRIOR ART



**FIG. 4**  
PRIOR ART

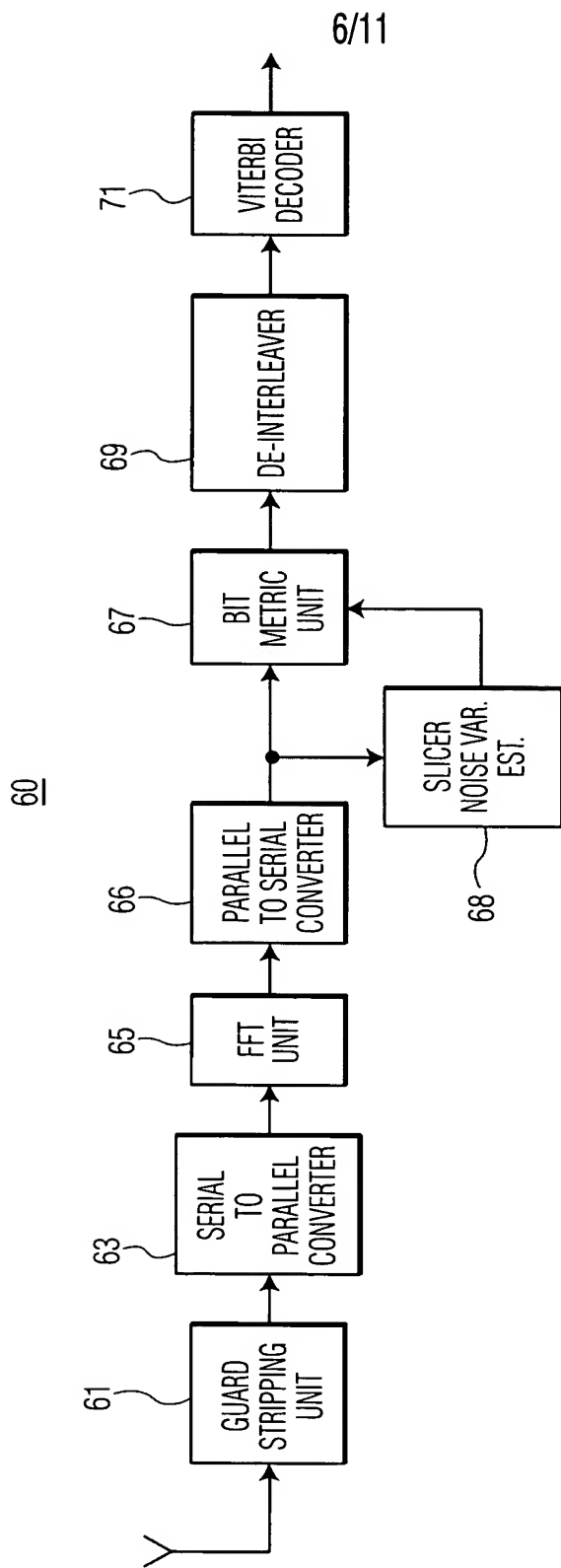


FIG. 5

7/11

EQUATION (8)

$$\begin{bmatrix} h_0 \\ h_1 \\ h_2 \\ \vdots \\ h_{63} \end{bmatrix}_{64 \times 1} = e^{j2\pi K} \begin{bmatrix} \quad \quad \quad \end{bmatrix}_{64 \times 16} \begin{bmatrix} h_0 \\ h_1 \\ h_2 \\ \vdots \\ h_{15} \\ 0 \\ 0 \\ 0 \\ \vdots \\ 0 \end{bmatrix}_{64 \times 1}$$

$\begin{bmatrix} H \end{bmatrix} \qquad \qquad \qquad \begin{bmatrix} F \end{bmatrix} \qquad \qquad \qquad \begin{bmatrix} h \end{bmatrix}$

FIG. 6

$$R_n = \begin{bmatrix} \sigma_\omega^2 & \cdot & \cdot & \cdot & 0 & \cdot & \cdot & \cdot & 0 \\ \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ 0 & \cdot & \cdot & \cdot & \sigma_b^2 + \sigma_\omega^2 & \cdot & \cdot & \cdot & 0 \\ \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ 0 & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \sigma_b^2 + \sigma_\omega^2 & 0 \\ 0 & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \sigma \end{bmatrix}$$

FIG. 7

8/11

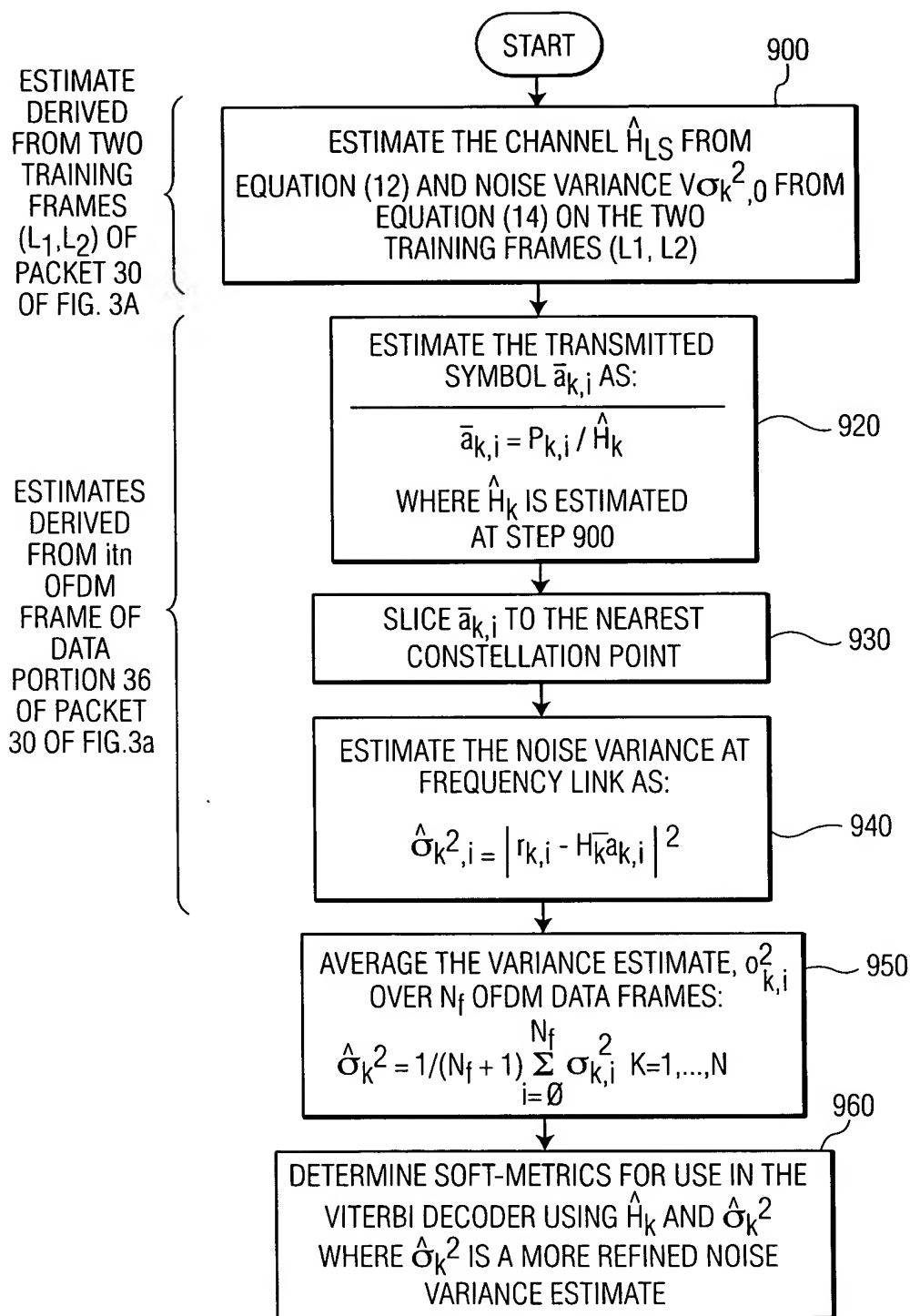


FIG. 8



9/11

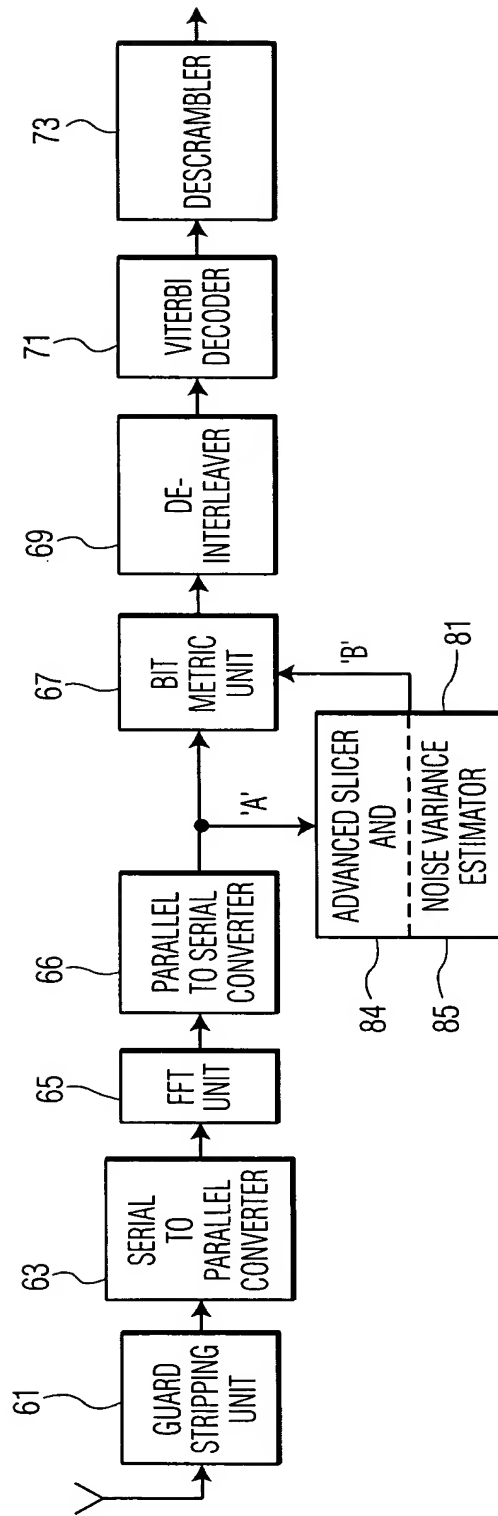
70

FIG. 9A

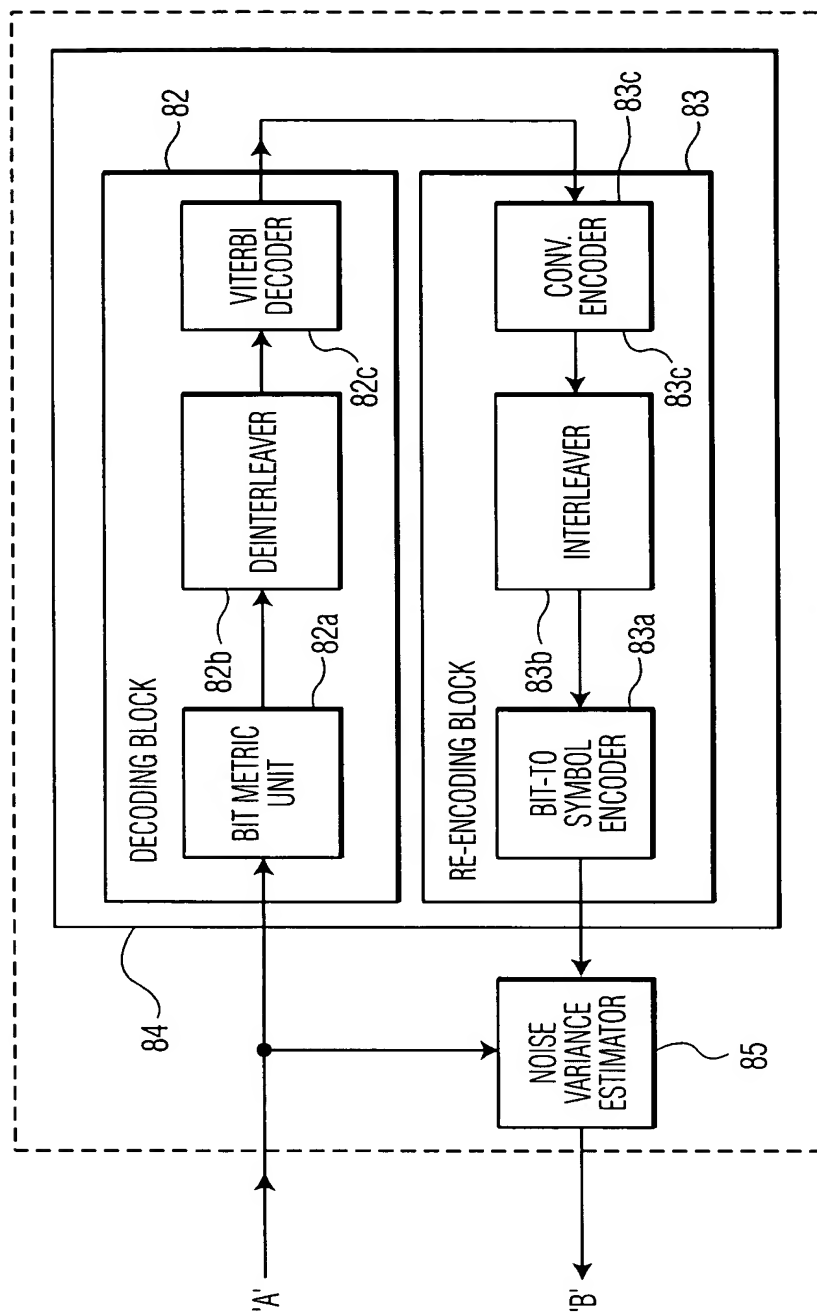


FIG. 9B

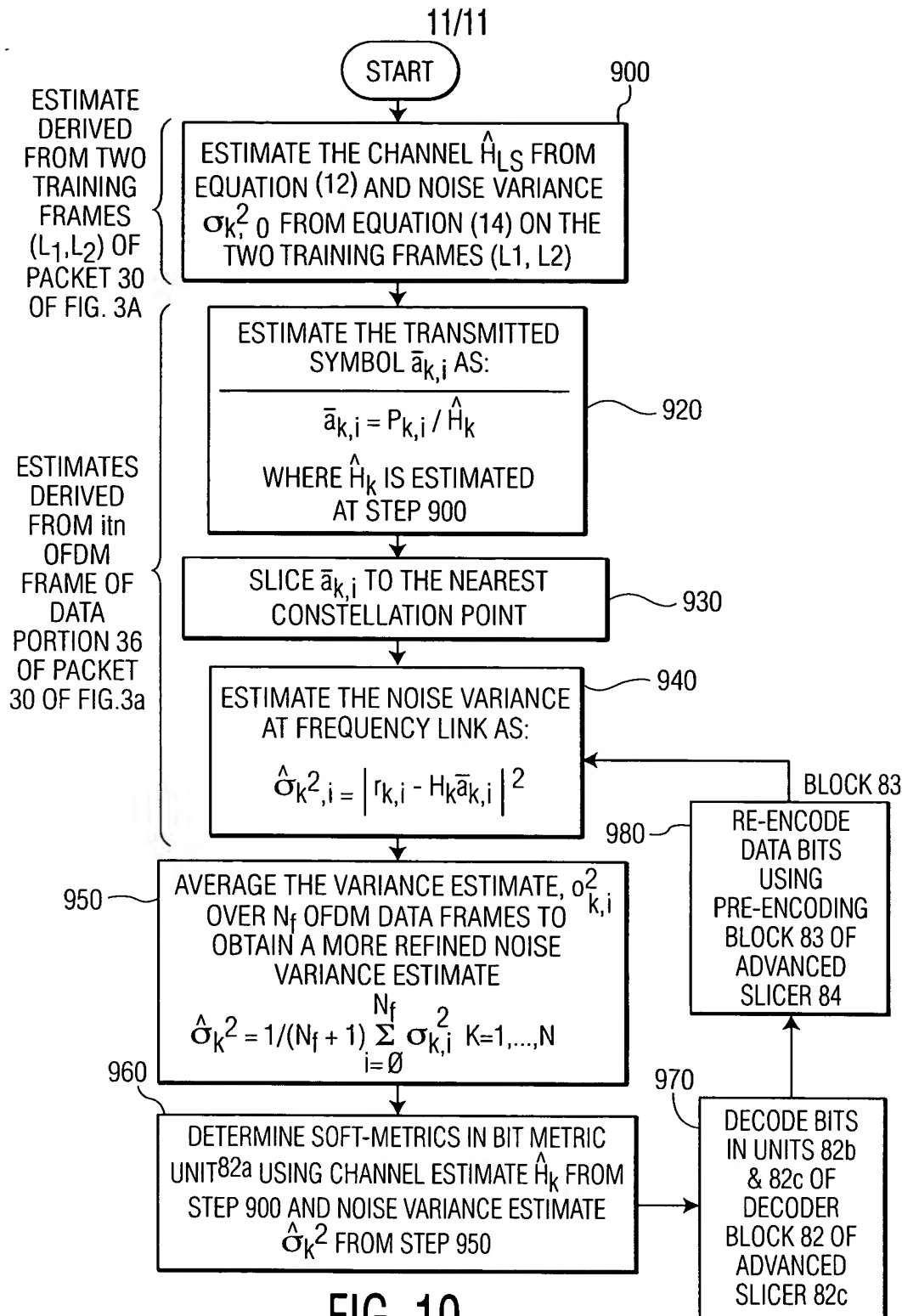


FIG. 10